

Title (en)  
OUTSIDE VAPOR DEPOSITION APPARATUS FOR MAKING OPTICAL FIBER PREFORM AND METHOD FOR MAKING OPTICAL FIBER PREFORM USING THE SAME

Title (de)  
VORRICHTUNG ZUR VAKUUMBESCHICHTUNG ZUM MARKIEREN VON OPTISCHEN FASERVORFORMEN SOWIE VERFAHREN ZUR HERSTELLUNG OPTISCHER FASERVORFORMEN MIT DIESER VORRICHTUNG

Title (fr)  
APPAREIL DE DEPOT EXTERNE EN PHASE VAPEUR POUR REALISER UNE PREFORME EN FIBRE OPTIQUE, ET PROCEDE DE FABRICATION D'UNE PREFORME EN FIBRE OPTIQUE UTILISANT L'APPAREIL

Publication  
**EP 1414764 A4 20040901 (EN)**

Application  
**EP 03710495 A 20030327**

Priority  
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Abstract (en)  
[origin: WO2004002911A1] An Outside Vapor Deposition (OVD) apparatus for making an optical fiber preform with uniform deposition of silica particles through uniform heating to the overall length of the preform includes a mandrel having a predetermined length and driven to rotate and a burner for emitting a combustion gas together with a combustion gas toward the mandrel and burning the combustion gas to make silica particles to that the silica particles are deposited on a surface of the mandrel, wherein the burner has a length corresponding to the length of the mandrel and provides uniform temperature throughout the overall length of the mandrel at the same time.

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**C03B 37/018**; **C03B 19/14**

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)  
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• [X] US 4136828 A 19790130 - ANDERSON JOSEPH W, et al  
• [XY] WO 0228790 A1 20020411 - CORNING INC [US]  
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• [A] US 3947233 A 19760330 - SUNDBERG CARL AXEL  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 24 11 May 2001 (2001-05-11)  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 0093, no. 24 (C - 320) 19 December 1985 (1985-12-19)  
• [XY] PATENT ABSTRACTS OF JAPAN vol. 0153, no. 02 (C - 0855) 2 August 1991 (1991-08-02)  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 0081, no. 62 (C - 235) 26 July 1984 (1984-07-26)  
• [Y] PATENT ABSTRACTS OF JAPAN vol. 0160, no. 98 (C - 0918) 11 March 1992 (1992-03-11)  
• See references of WO 2004002911A1

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**WO 2004002911 A1 20040108**; AU 2003214676 A1 20040119; CN 1235821 C 20060111; CN 1545490 A 20041110; EP 1414764 A1 20040506; EP 1414764 A4 20040901; KR 100496449 B1 20050620; KR 20040001769 A 20040107; US 2004244426 A1 20041209; US 7441417 B2 20081028

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**KR 0300615 W 20030327**; AU 2003214676 A 20030327; CN 03800876 A 20030327; EP 03710495 A 20030327; KR 20020037090 A 20020628; US 48943804 A 20040309